



Worksheet 2 Types of Operating System

Task 1

1. (a) In mobile operating systems, why do you think underlying hardware is handled by a low level proprietary OS, made and owned by the hardware manufacturer, and the user interface and applications are handled separately?
- (b) Why do mobile devices such as smartphones and tablets require a different operating system from a desktop computer?



Task 2

2. (a) Match up the statements with the correct type of Operating System(s) that they relate to. Some statements may relate to more than one type of operating system.

- Distributed
- Embedded
- Multi-tasking
- Multi-user
- Real-time

A mainframe computer's processing power is used by lots of individual terminals	A single job can be processed using the resources of multiple computers
Processor time is scheduled according to an algorithm	Inputs must be acted upon very quickly by the operating system
A household appliance might use this type of Operating System	A home desktop computer might have this type of operating system
Hardware redundancy and fail safes are required if the system is safety-critical	This type of OS gives the illusion of working with a single processor, when in reality jobs are coordinated across multiple computers

- (b) Write down two more statements which relate to a type of operating system. Either in a group or with a partner, see if another student can work out which type of operating system your statement relates to.